JAN 1 8 2005

PTO/SB/08B (08-03)

Approved for use through 07/31/2006. OMB 0851-0031 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

| Substitute for form 1449/PTO | | | | re required to respond to a collection of information unless it contains a valid OMB control number. Complete if Known | |
|-----------------------------------|---|----|----------|---|--------------------|
| | | | | Application Number | 09/865,999 |
| INFORMATION DISCLOSURE | | | | Filing Date | May 25, 2001 |
| STATEMENT BY APPLICANT | | | PPLICANT | First Named Inventor | Guillermo ALVAREZ |
| (Use as many sheets as necessary) | | | | Art Unit | 2123 |
| (050 d5 many shoots as nocessary) | | | | Examiner Name | William D. THOMSON |
| Sheet | 1 | of | 2 | Attorney Docket Number | 10003525-1 |

| | | | NON PATENT LITERATURE DOCUMENTS | |
|--------------------|----|--------------------------|---|--------------------------------------|
| Examiner Initials* | | Cite No. ¹ | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | , title of e-issue T ² |
| W | um | | Guillermo A. ALVAREZ et al., Declustered Disk Array Architectures with Optimal and Near-optimal Parallelism, Proc. of the 25th Annual ACM/IEEE Symposium on Computer Architecture, 1998, pp. 109-120, IEEE Computer Society, Washington DC. | |
| | | 1B | Guillermo A. ALVAREZ et al., Efficient verification of performability guarantees, Fifth International Workshop on Performability Modeling of Computer and Communication Systems, September 2001, Erlangen, Germany, . | <u> </u> |
| | | 1C | Scott A. BARNETT et al., Performability of disk-array-based video servers, Multimedia Systems, 1998, 6:60-74, Springer-Verlag, Berlin, Germany. | |
| | | 1D | Ing-Ray CHEN, Effect of Probabilistic Error Checking Procedures on Performability of Robust Objects, Proceedings of the 1993 ACM/SIGAPP Symposium on Applied Computing: States of the Art and Practice, 1993, pp. 677 - 681, ACM Press, New York, NY. | |
| | | 1E | S. M. Rezaul ISLAM, Performability Analysis of Disk Arrays, Proceedings of the 36th Midwest Symposium on Circuits and Systems, 1993, IEEE, New York, NY. | |
| | | lF | Edward K. LEE et al., An Analytic Performance Model of Disk Arrays, Proceedings of the 1993 ACM SIGMETRICS Conference on Measurement and Modeling of Computer Systems, 1993, pp. 98 - 109, ACM Press, New York, NY. | |
| | | 1 G ′ | Arif MERCHANT et al., Analytic Modeling of Clustered RAID with Mapping Based on Nearly Random Permutation, IEEE Transactions on Computers, 1996, Vol. 45, No. 3, pp. 367-373, IEEE Computer Society, Washington DC. | |
| | | 1H | Arif MERCHANT et al., Disk Array Models in Minerva, HP Labs Technical Report, HPL-2001-118, May 15, 2001, Hewlett-Packard, Palo-Alto, CA. | |
| | | 11 | David A. PATTERSON et al., A Case for Redundant Arrays of Inexpensive Disks (RAID), Proceedings of the 1988 ACM SIGMOD International Conference on Management of Data, 1988, pp. 109-116, ACM Press, New York, NY. | |
| Ú | 1 | _lJ | Alexander THOMASIAN et al., Performance Analysis of RAID5 Disk Arrays with a Vacationing Server Model for Rebuild Mode Operation, Proceedings of the Tenth International Conference on Data Engineering, 1994, pp. 111-119, IEEE Computer Society, Washington DC. | |

| | | |
|-----------|------------|--------|
| Examiner | Date | |
| Signature | Considered | 4-1-05 |

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will very depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:

Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.



PTO/SB/08B (08-03)
Approved for use through 07/31/2008. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
As collection of information unless it contains a unit OALS Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

| Substitute for form 1449/PTO | | | | Complete if Known | | |
|-----------------------------------|---------------------|-------|----------|------------------------|--------------------|--|
| Subsului | 6 10/10/11/1448/-10 | | | Application Number | 09/865,999 | |
| INFO | DRMATIO | N DIS | CLOSURE | Filing Date | May 25, 2001 | |
| STATEMENT BY APPLICANT | | | PPLIÇANT | First Named Inventor | Guillermo ALVAREZ | |
| (Use as many sheets as necessary) | | | | Art Unit | 2123 | |
| | | | | Examiner Name | William D. THOMSON | |
| Sheet | 2 | of | 2 | Attorney Docket Number | 10003525-1 | |

| | | NON PATENT LITERATURE DOCUMENTS | | | |
|--------------------|--------------|--|--|--|--|
| Examiner Initials* | Cite No.1 | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of | | | |
| UR | 2A | Alexander THOMASIAN et al., RAID5 Performance with Distributed Sparing, IEEE Transactions on Parallel and Distributed Systems, 1997, Vol. 8, No. 6, pp. 640-657, IEEE Computer Society, Washington DC. | | | |
| un | 2B | Alexander THOMASIAN, RAID5 Disk Arrays and their Performance Analysis, Recovery Mechanisms in Database Systems, 1997, Chapter 37, Prentice-Hall, Upper Saddle River, NJ. | | | |
| ar | 2C | John WILKES et al., Specifying data availability in multi-device file systems, Technical Report HPL-CSP-90-6, 1990, Hewlett-Packard, Palo Alto, CA. | | | |
| : | | · | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| Examiner | $C \cdot \Omega =$ | Date | |
|-----------|--------------------|------------|--------|
| Signature | (XXX | Considered | 4-1-05 |

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:

Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.